

FIG. 1

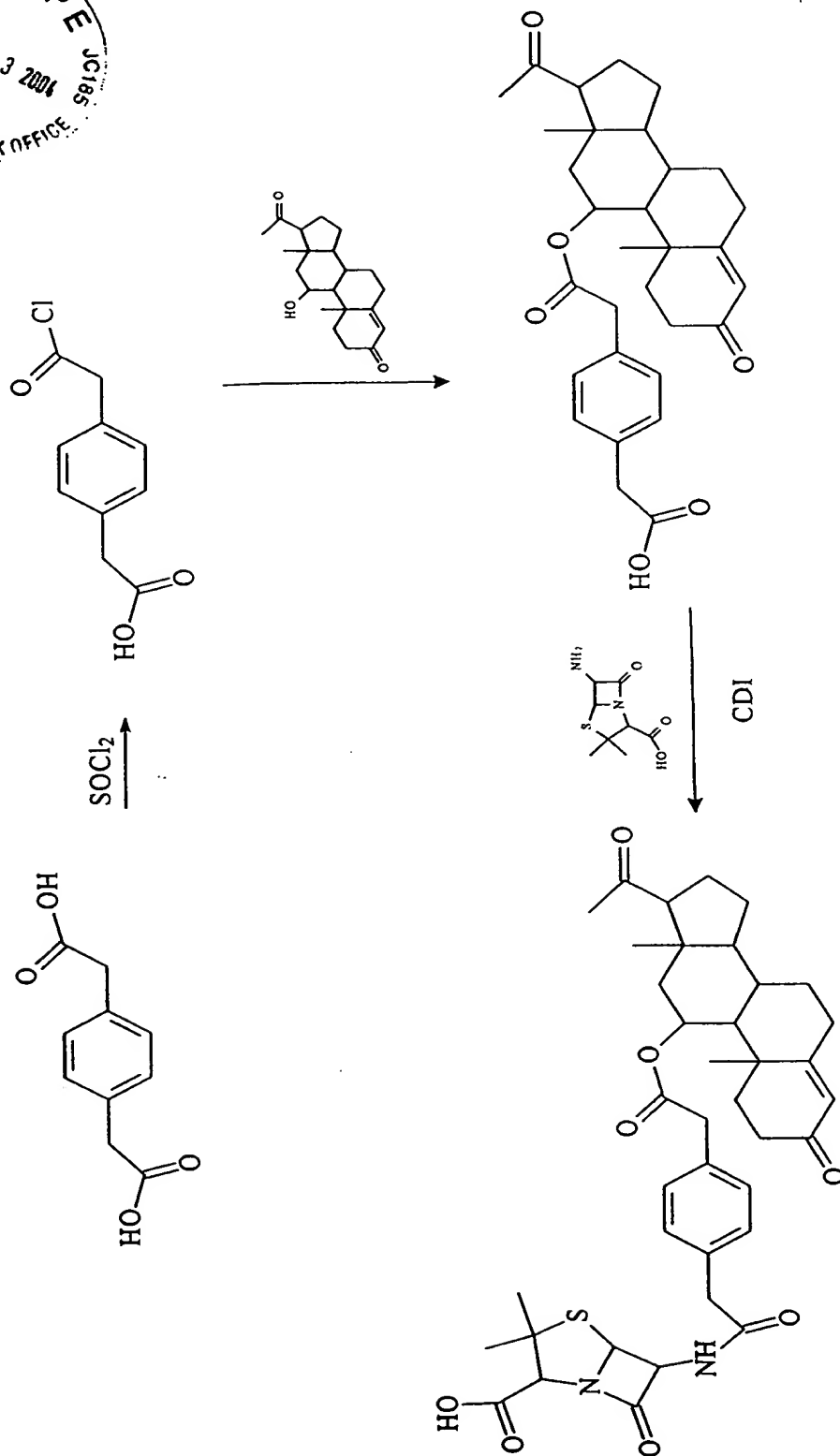


Fig. 2

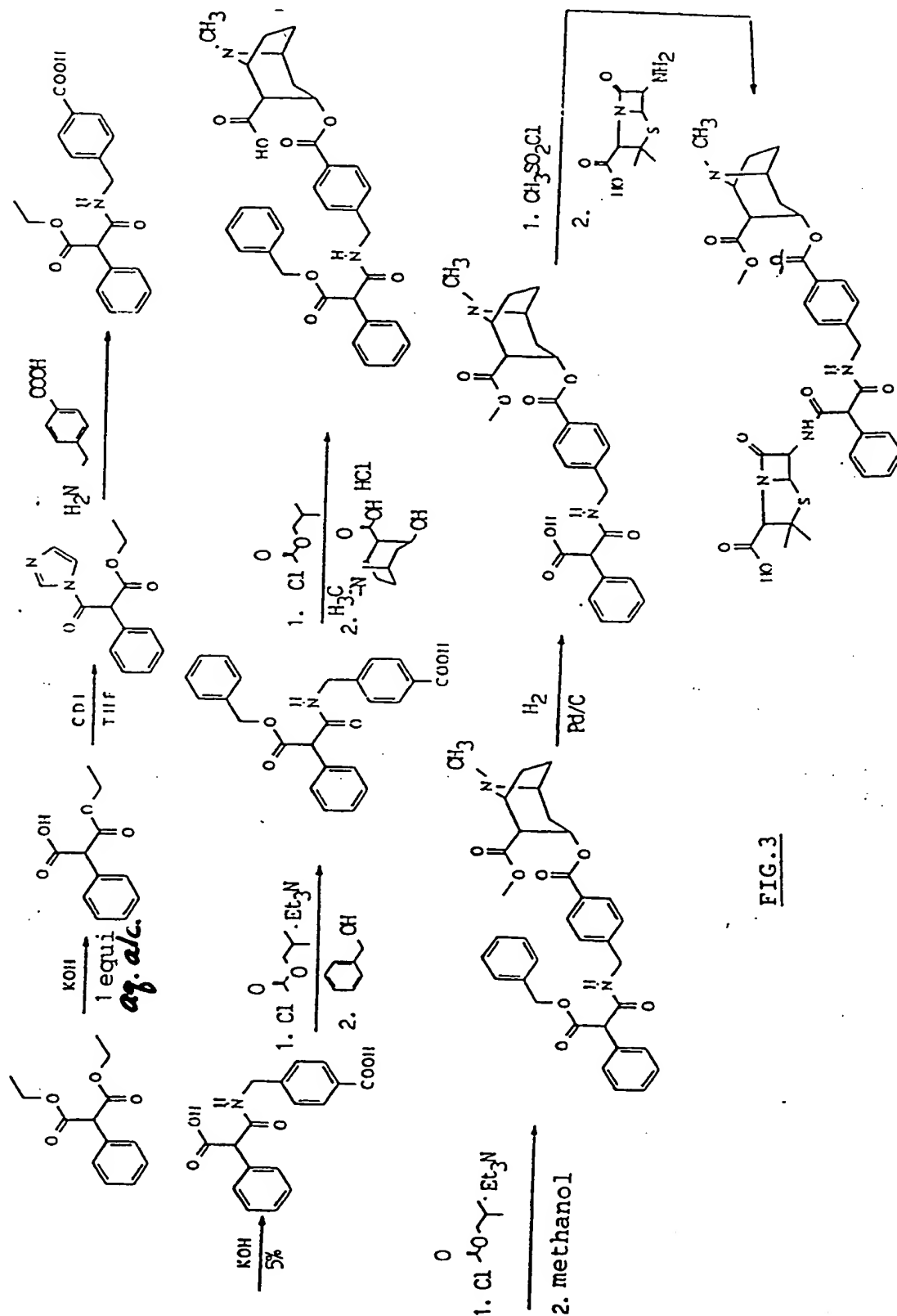
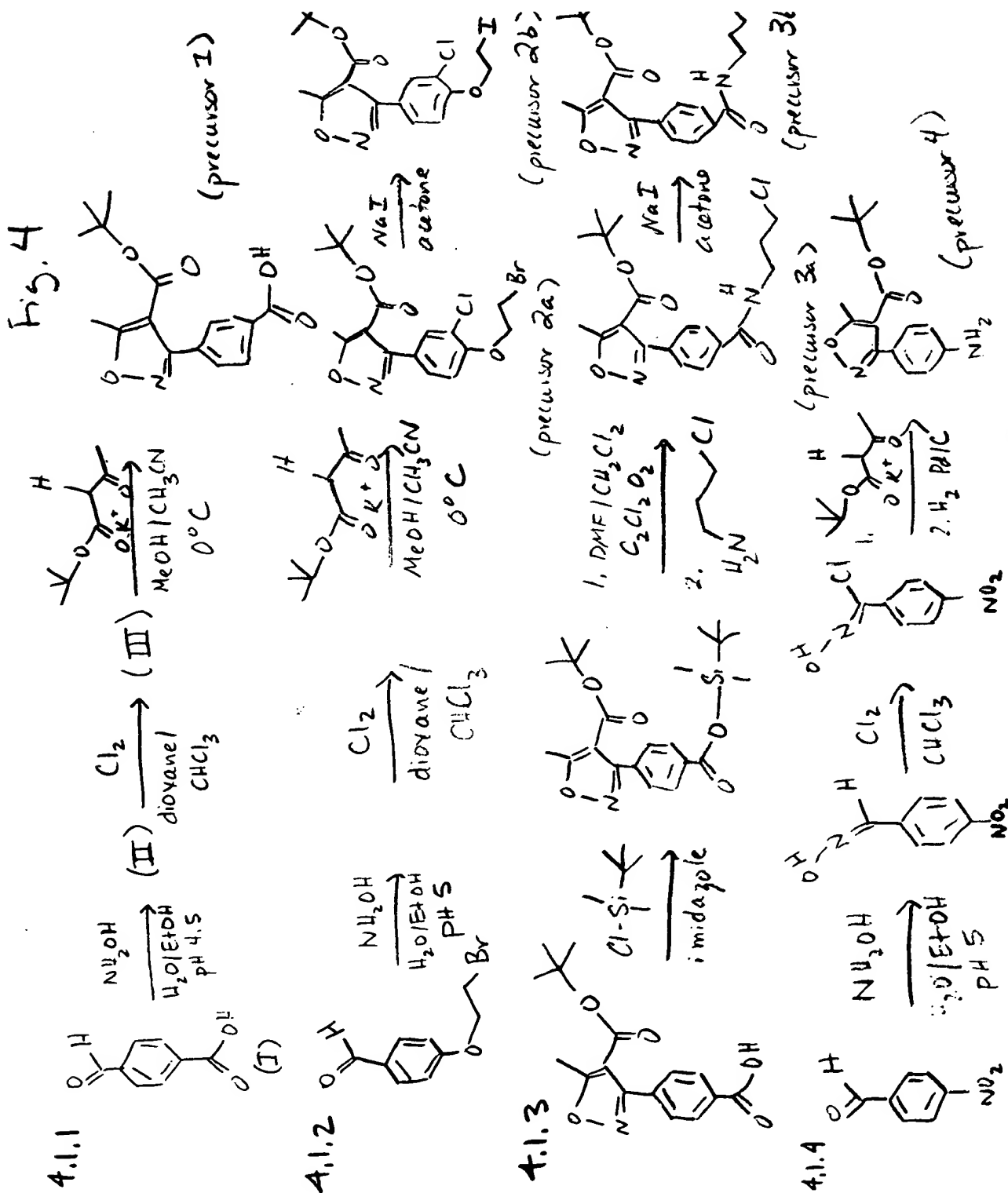
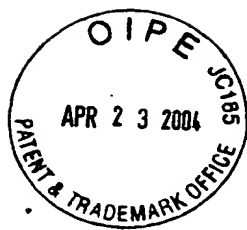


FIG. 3

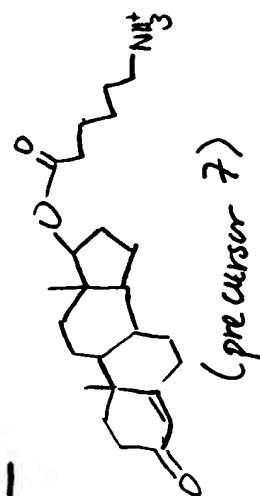
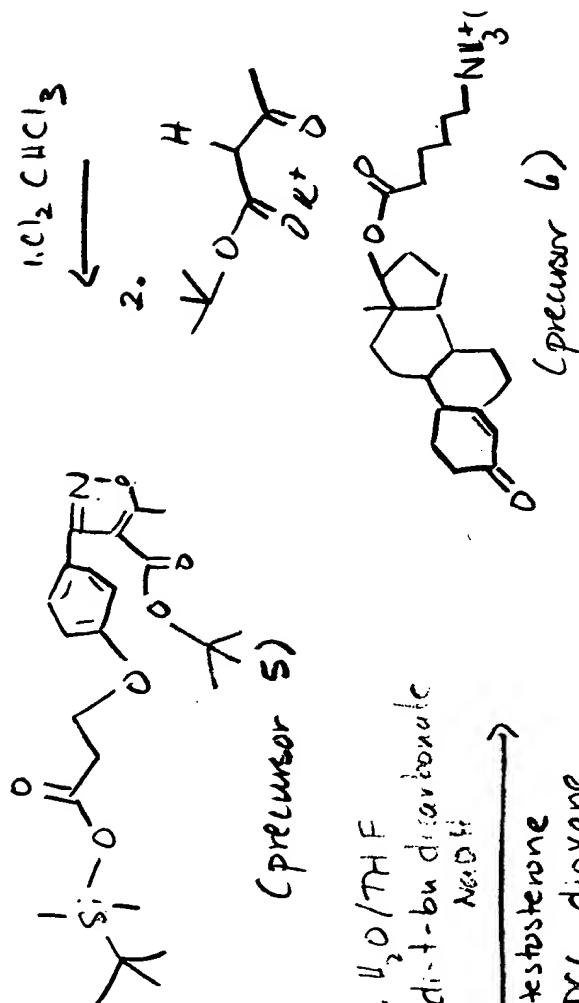
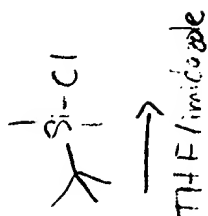




4.1.5

O=C1CCCC1 + CC#N  $\xrightarrow{\text{DMF/CH}_3\text{CN}}$ 
$$\text{NH}_4\text{OH} \xrightarrow{\text{EtOH}} \text{EtOH}$$

Fig. 5



1.  $\text{H}_2\text{O}/\text{H}^+$   
di-*t*-bu dicarbonate  
NaOH  $\rightarrow$

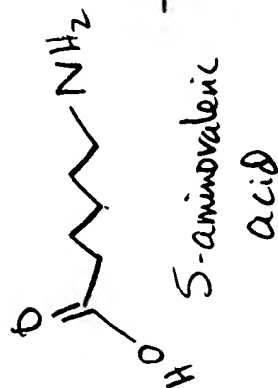
2. testosterone  
DCC diovane

3. phenol  $\text{ClSiMe}_2\text{Cl}$

1.  $H_2O$  /  $H^+$   
di- $t$ bu dicarbonate  
 $NaOH$

2. nandrolone  
dimethylaminopyridine diovane
3. phenol  $C_{15}Me_6$ ,  $C_{12}Cl_2$ ,  $E+O+C$

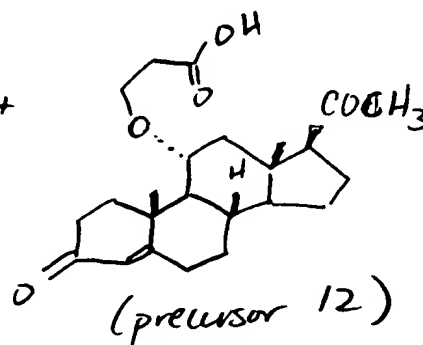
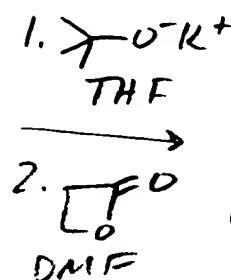
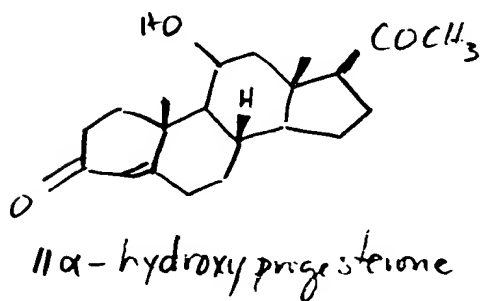
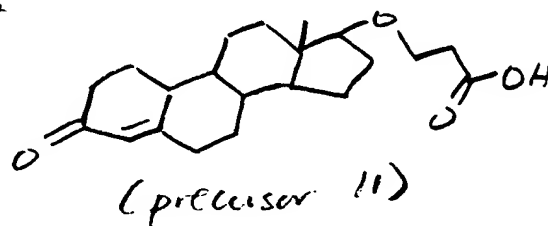
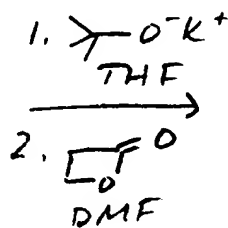
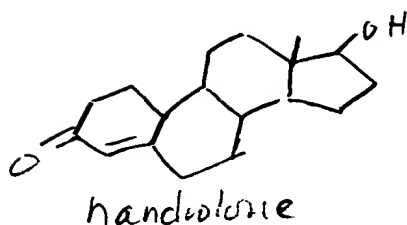
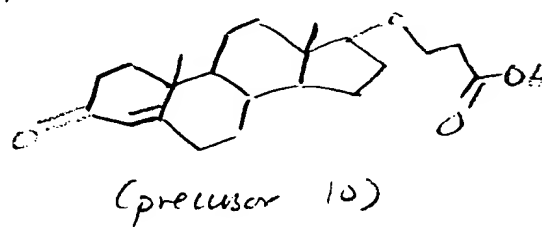
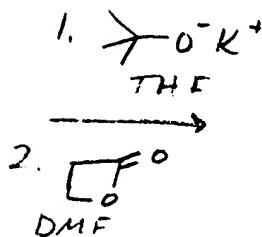
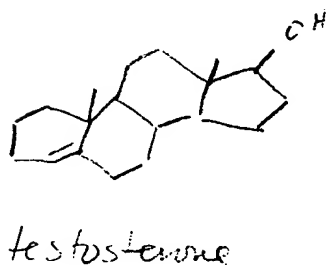
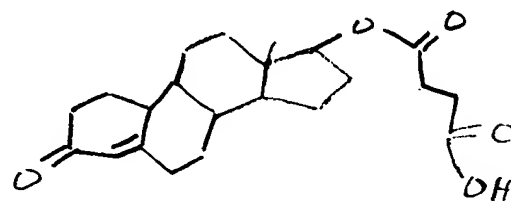
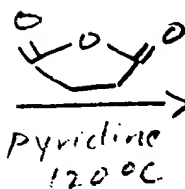
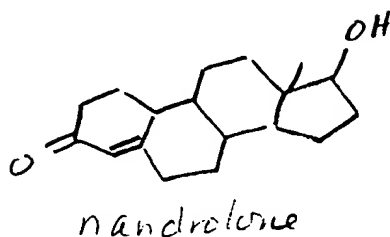
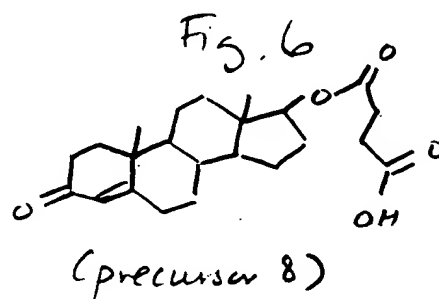
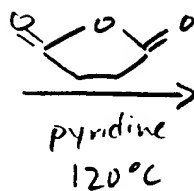
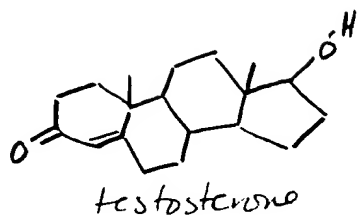
6.4, 2.1



5-aminovaleric acid

2. nandrolone dimethylamine

3 phenol  $\text{Cl} \& \text{Me}$ ,  $\text{Cl}_2$  /  $\text{EtOAc}$



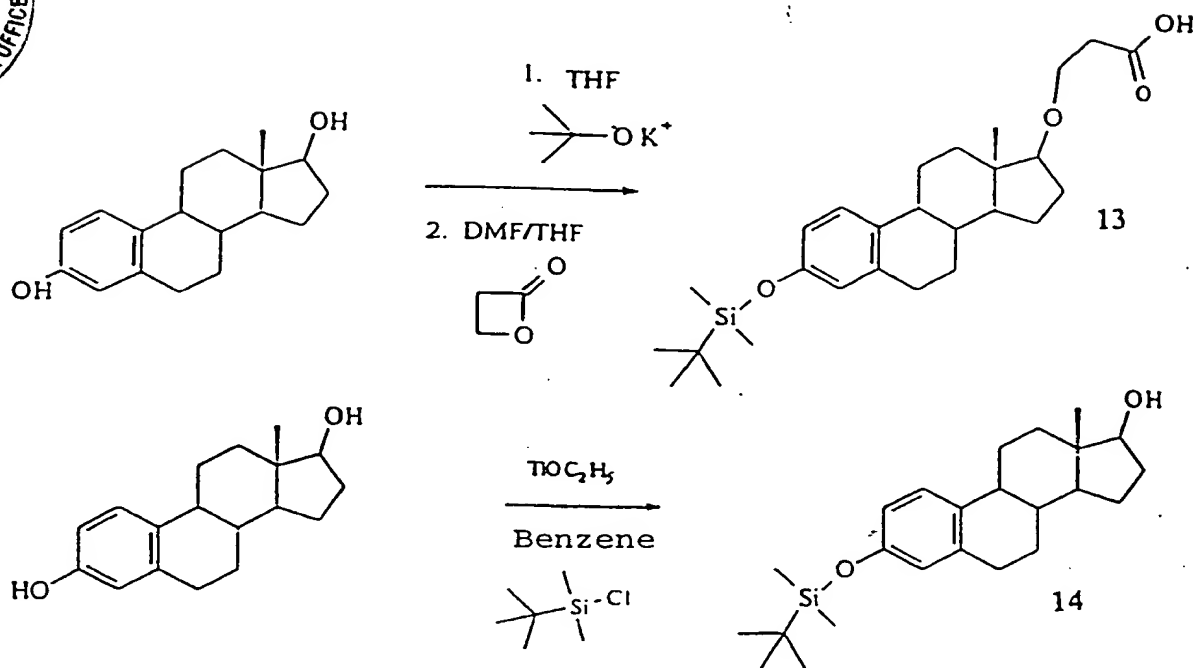


FIG. 7

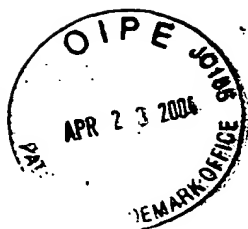
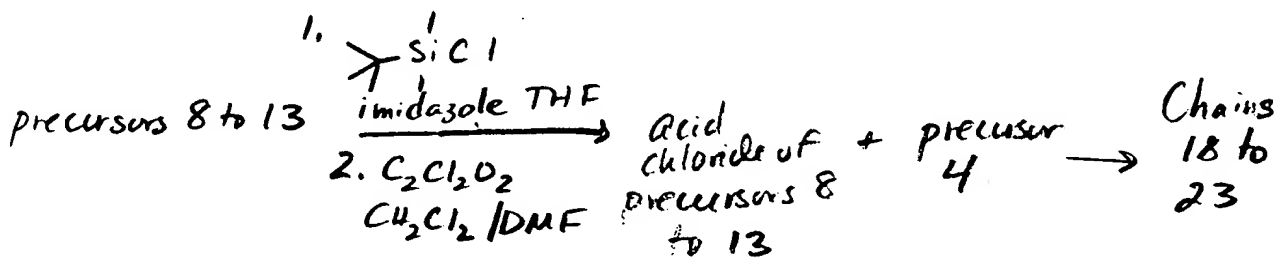
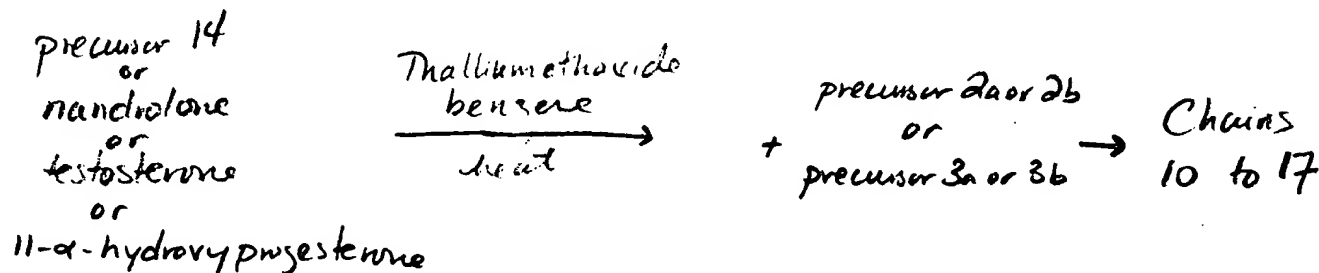
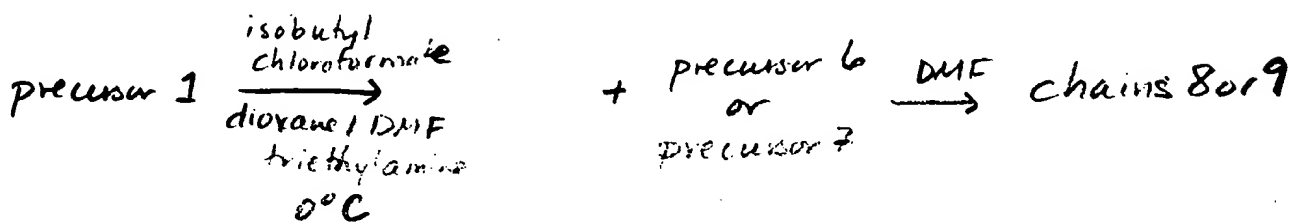
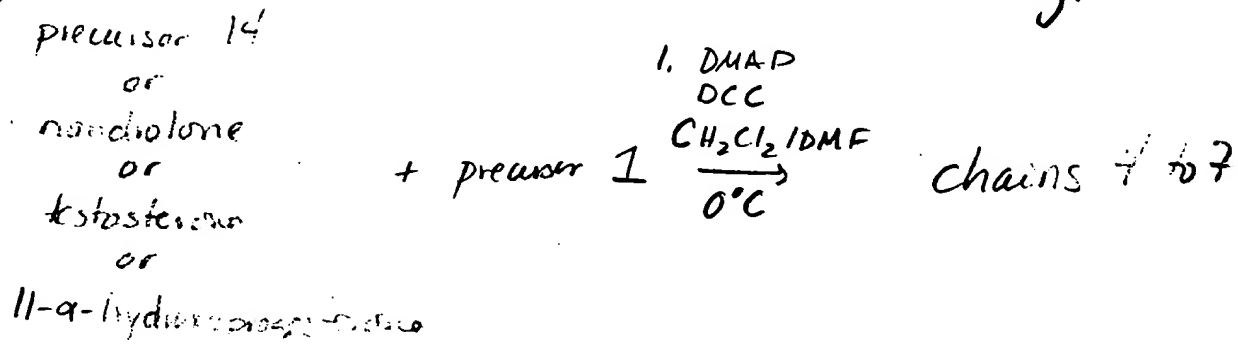


Fig. 8





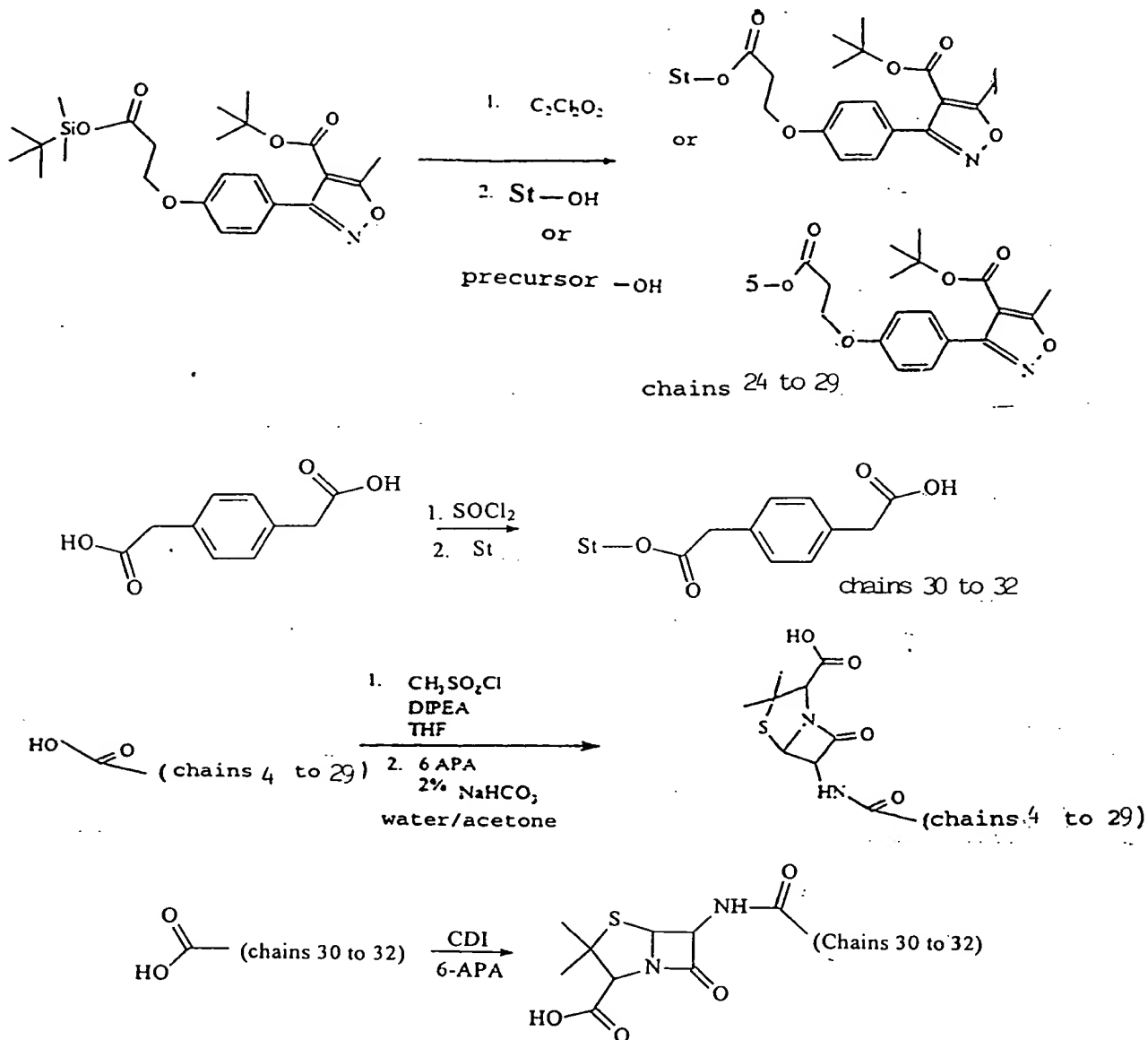


Fig. 9

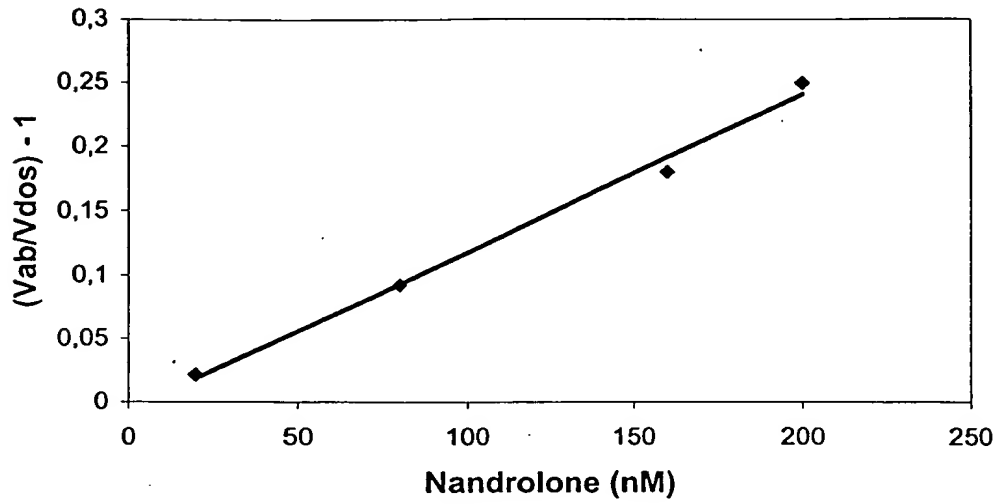


FIG. 10

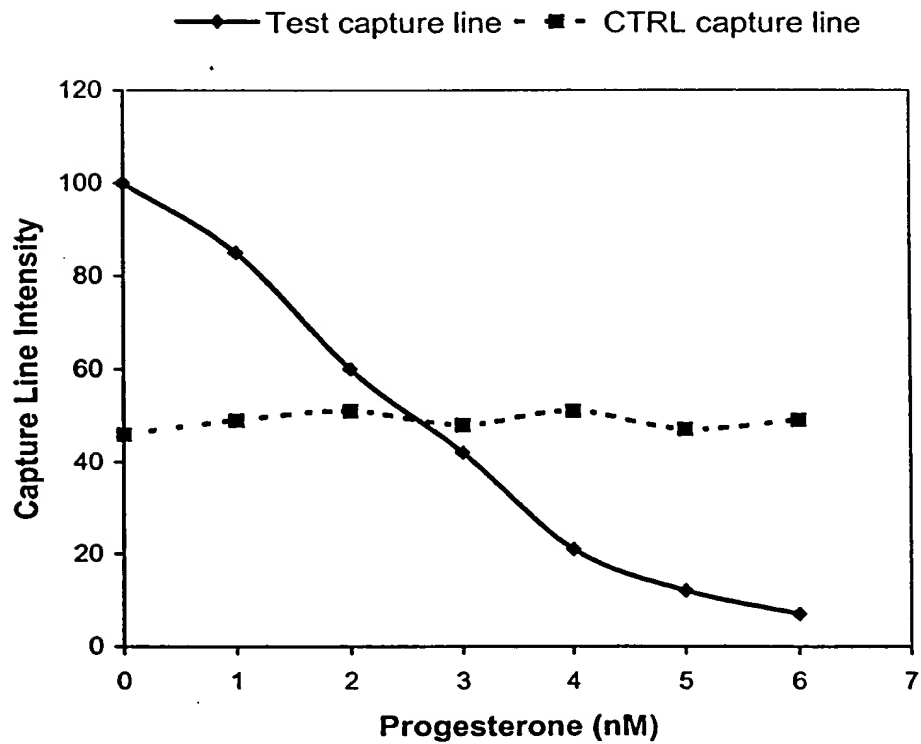


FIG. 11

# **Appendix**

Contains proposed figures 1-11.